

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/469,492DATE: 05/09/97  
TIME: 13:57:17

INPUT SET: S17578.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

ENTERED

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: Weiner, Howard  
6 Miller, Ariel  
7 Zheng, Zhengi  
8 Al-Sabbagh, Ahmad  
9  
10 (ii) TITLE OF INVENTION: BYSTANDER SUPPRESSION OF AUTOIMMUNE  
11 DISEASES  
12  
13 (iii) NUMBER OF SEQUENCES: 13  
14  
15 (iv) CORRESPONDENCE ADDRESS:  
16 (A) ADDRESSEE: Darby & Darby  
17 (B) STREET: 805 Third Ave.  
18 (C) CITY: New York  
19 (D) STATE: New York  
20 (E) COUNTRY: U.S.A.  
21 (F) ZIP: 10022  
22  
23 (v) COMPUTER READABLE FORM:  
24 (A) MEDIUM TYPE: Floppy disk  
25 (B) COMPUTER: IBM PC compatible  
26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25  
28  
29 (vi) CURRENT APPLICATION DATA:  
30 (A) APPLICATION NUMBER: US 08/469,492  
31 (B) FILING DATE: 06-JUN-1995  
32 (C) CLASSIFICATION: 424  
33  
34 (vii) PRIOR APPLICATION DATA:  
35 (A) APPLICATION NUMBER: US 07/843,752  
36 (B) FILING DATE: 28-FEB-1992  
37  
38 (viii) ATTORNEY/AGENT INFORMATION:  
39 (A) NAME: GOGORIS, ADDA, C.  
40 (B) REGISTRATION NUMBER: 29,714  
41 (C) REFERENCE/DOCKET NUMBER: 1010/16959-US2  
42  
43 (ix) TELECOMMUNICATION INFORMATION:  
44 (A) TELEPHONE: (212)527-7700  
45 (B) TELEFAX: (212)753-6237  
46 (C) TELEX: 236687

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48

49 (2) INFORMATION FOR SEQ ID NO:1:

50

51 (i) SEQUENCE CHARACTERISTICS:

52 (A) LENGTH: 276 amino acids

53 (B) TYPE: amino acid

54 (D) TOPOLOGY: linear

55

56 (ii) MOLECULE TYPE: protein

57

58 (iii) HYPOTHETICAL: NO

59

60 (iv) ANTI-SENSE: NO

61

62 (vi) ORIGINAL SOURCE:

63 (A) ORGANISM: Bos taurus

64 (F) TISSUE TYPE: PLP

65

66 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

67

68 Gly Leu Leu Gly Cys Cys Ala Arg Cys Leu Val Gly Ala Pro Phe Ala  
69 1 5 10 15

70

71 Ser Leu Val Ala Thr Gly Leu Cys Phe Phe Gly Val Ala Leu Phe Cys  
72 20 25 30

73

74 Gly Cys Gly His Glu Ala Leu Thr Gly Thr Glu Lys Leu Ile Glu Thr  
75 35 40 45

76

77 Tyr Phe Ser Lys Asn Tyr Gln Asp Tyr Glu Tyr Leu Ile Asn Val Ile  
78 50 55 60

79

80 His Ala Phe Gln Tyr Val Ile Tyr Gly Thr Ala Ser Phe Phe Phe Leu  
81 65 70 75 80

82

83 Tyr Gly Ala Leu Leu Leu Ala Tyr Gly Phe Tyr Thr Thr Gly Ala Val  
84 85 90 95

85

86 Arg Gln Ile Phe Gly Asp Tyr Lys Thr Thr Ile Cys Gly Lys Gly Leu  
87 100 105 110

88

89 Ser Ala Thr Val Thr Gly Gly Gln Lys Gly Arg Gly Ser Arg Gly Gln  
90 115 120 125

91

92 His Gln Ala His Ser Leu Glu Arg Val Cys His Cys Leu Gly Lys Trp  
93 130 135 140

94

95 Leu Gly His Pro Asp Lys Phe Val Gly Ile Thr Tyr Ala Leu Thr Val  
96 145 150 155 160

97

98 Val Trp Leu Leu Val Phe Ala Cys Ser Ala Val Pro Val Tyr Ile Tyr  
99 165 170 175

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100
101 Phe Asn Thr Trp Thr Thr Cys Gln Ser Ile Ala Ala Pro Ser Lys Thr
102           180           185           190
103
104 Ser Ala Ser Ile Gly Thr Leu Cys Ala Asp Ala Arg Met Tyr Gly Val
105           195           200           205
106
107 Leu Pro Trp Asn Ala Phe Pro Gly Lys Val Cys Gly Ser Asn Leu Leu
108           210           215           220
109
110 Ser Ile Cys Lys Thr Ala Glu Phe Gln Met Thr Phe His Leu Phe Ile
111           225           230           235           240
112
113 Ala Ala Phe Val Gly Ala Ala Ala Thr Leu Val Ser Leu Val Thr Phe
114           245           250           255
115
116 Met Ile Ala Ala Thr Tyr Asn Phe Ala Val Leu Lys Leu Met Gly Arg
117           260           265           270
118
119 Gly Thr Lys Phe
120           275
121

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(2) INFORMATION FOR SEQ ID NO:2:

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124 (i) SEQUENCE CHARACTERISTICS:
125     (A) LENGTH: 21 amino acids
126     (B) TYPE: amino acid
127     (D) TOPOLOGY: linear
128

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129 (ii) MOLECULE TYPE: peptide
130

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131 (iii) HYPOTHETICAL: NO
132

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133 (iv) ANTI-SENSE: NO
134

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135 (v) FRAGMENT TYPE: N-terminal
136

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```

137 (vi) ORIGINAL SOURCE:
138     (A) ORGANISM: Homo sapiens
139     (F) TISSUE TYPE: insulin
140

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141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
142

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```

143 Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu
144 1           5           10           15
145
146 Glu Asn Tyr Cys Asn
147           20
148

```

(2) INFORMATION FOR SEQ ID NO:3:

```

151 (i) SEQUENCE CHARACTERISTICS:
152     (A) LENGTH: 30 amino acids

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153         (B) TYPE: amino acid
154         (D) TOPOLOGY: linear
155
156     (ii) MOLECULE TYPE: peptide
157
158     (iii) HYPOTHETICAL: NO
159
160     (iv) ANTI-SENSE: NO
161
162     (v) FRAGMENT TYPE: N-terminal
163
164     (vi) ORIGINAL SOURCE:
165         (A) ORGANISM: Homo sapiens
166         (F) TISSUE TYPE: insulin
167
168     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
169
170     Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
171     1             5             10             15
172
173     Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr
174             20             25             30
175
176 (2) INFORMATION FOR SEQ ID NO:4:
177
178     (i) SEQUENCE CHARACTERISTICS:
179         (A) LENGTH: 171 amino acids
180         (B) TYPE: amino acid
181         (D) TOPOLOGY: linear
182
183     (ii) MOLECULE TYPE: protein
184
185     (iii) HYPOTHETICAL: NO
186
187     (iv) ANTI-SENSE: NO
188
189     (vi) ORIGINAL SOURCE:
190         (A) ORGANISM: Homo sapiens
191         (F) TISSUE TYPE: MBP
192
193     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
194
195     Ala Ser Gln Lys Arg Pro Ser Gln Arg His Gly Ser Lys Tyr Leu Ala
196     1             5             10             15
197
198     Thr Ala Ser Thr Met Asp Asn Ala Arg Asn Gly Phe Leu Pro Arg Asn
199             20             25             30
200
201     Arg Asp Thr Gly Ile Leu Asp Ser Ile Gly Arg Phe Phe Gly Gly Asp
202             35             40             45
203
204     Arg Gly Ala Pro Lys Arg Gly Ser Gly Lys Asp Ser Met Met Pro Ala
205             50             55             60

```

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206  
207 Arg Thr Ala Met Tyr Gly Ser Leu Pro Gln Lys Ser Asn Gly Arg Thr  
208 65 70 75 80  
209  
210 Gln Asp Glu Asn Pro Val Val Met Phe Phe Lys Met Ile Val Thr Pro  
211 85 90 95  
212  
213 Arg Thr Pro Pro Pro Ser Gln Gly Lys Gly Arg Gly Leu Ser Leu Ser  
214 100 105 110  
215  
216 Arg Phe Ser Trp Gly Ala Glu Ser Gln Arg Arg Pro Gly Phe Gly Tyr  
217 115 120 125  
218  
219 Gly Gly Arg Ala Ser Asp Tyr Lys Ser Ala Met Lys Gly Phe Lys Gly  
220 130 135 140  
221  
222 Val Asp Ala Gln Gly Thr Leu Ser Lys Ile Phe Lys Leu Gly Gly Arg  
223 145 150 155 160  
224  
225 Asp Ser Arg Ser Gly Ser Pro Met Ala Arg Arg  
226 165 170  
227

## (2) INFORMATION FOR SEQ ID NO:5:

228  
229  
230 (i) SEQUENCE CHARACTERISTICS:  
231 (A) LENGTH: 171 amino acids  
232 (B) TYPE: amino acid  
233 (D) TOPOLOGY: linear  
234

235 (ii) MOLECULE TYPE: protein  
236

237 (iii) HYPOTHETICAL: NO  
238

239 (iv) ANTI-SENSE: NO  
240

241 (vi) ORIGINAL SOURCE:  
242 (A) ORGANISM: Bos taurus  
243 (F) TISSUE TYPE: MBP  
244

245 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
246

247 Ala Ala Gln Lys Arg Pro Ser Gln Arg Ser Lys Tyr Leu Ala Ser Ala  
248 1 5 10 15  
249  
250 Ser Thr Lys Asp Met Ala Arg Met Gly Pro Leu Pro Arg Asn Arg Asp  
251 20 25 30  
252  
253 Thr Gly Ile Leu Asp Ser Leu Gly Arg Phe Phe Gly Ser Asp Arg Gly  
254 35 40 45  
255  
256 Ala Pro Lys Arg Gly Ser Gly Ser Gly Lys Asp Gly Met Met Ala Ala  
257 50 55 60  
258

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**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/469,492**

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Original Text